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RAW SEQUENCE LISTING

DATE: 05/10/2004

PATENT APPLICATION: US/09/855,170A

TIME: 10:48:49

Input Set : N:\Crf3\RULE60\09855170A.RAW.txt

Output Set: N:\CRF4\05102004\I855170A.raw

1 <110> APPLICANT: Lizardi, Paul M.
 2 <120> TITLE OF INVENTION: Artificial Long Terminal Repeat Vectors
 3 <130> FILE REFERENCE: YU 125
 C--> 4 <140> CURRENT APPLICATION NUMBER: US/09/855,170A
 5 <141> CURRENT FILING DATE: 2001-05-14
 6 <150> PRIOR APPLICATION NUMBER: US/09/396,340
 7 <151> PRIOR FILING DATE: 1999-09-15
 8 <150> PRIOR APPLICATION NUMBER: 60/100,305
 9 <151> PRIOR FILING DATE: 1998-09-15
 10 <160> NUMBER OF SEQ ID NOS: 9
 11 <170> SOFTWARE: PatentIn Ver. 2.1
 13 <210> SEQ ID NO: 1
 14 <211> LENGTH: 64
 15 <212> TYPE: DNA
 16 <213> ORGANISM: Artificial Sequence
 17 <220> FEATURE:
 18 <223> OTHER INFORMATION: Description of Artificial Sequence: ALTR with
 19 identical repeats and identical linkers
 W--> 20 <221> NAME/KEY: misc_feature
 21 <222> LOCATION: (25)..(27)
 22 <223> OTHER INFORMATION: Linker sequence where N represents A, G, C, or T
 W--> 23 <221> misc_feature
 24 <222> LOCATION: (28)..(37)
 25 <223> OTHER INFORMATION: DNA insert where N represents A, G, C, or T
 W--> 26 <221> misc_feature
 27 <222> LOCATION: (38)..(40)
 28 <223> OTHER INFORMATION: Linker Sequence where N represents A, G, C, or T
 W--> 29 <400> 1
 W--> 30 aggtaggttag gtaggttaggt aggtnnnnnnn nnnnnnnnnn acctacctac ctacctacct 60
 31 acct 64
 33 <210> SEQ ID NO: 2
 34 <211> LENGTH: 64
 35 <212> TYPE: DNA
 36 <213> ORGANISM: Artificial Sequence
 37 <220> FEATURE:
 38 <223> OTHER INFORMATION: Description of Artificial Sequence: ALTR with
 39 identical repeats and different linkers
 W--> 40 <221> NAME/KEY: misc_feature
 41 <222> LOCATION: (25)..(27)
 42 <223> OTHER INFORMATION: Linker Sequence where N represents A, G, C, or T
 W--> 43 <221> misc_feature
 44 <222> LOCATION: (28)..(37)
 45 <223> OTHER INFORMATION: DNA insert where N represents A, G, C, or T

ENTERED

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W--> 46 <221> misc_feature
      47 <222> LOCATION: (38)..(40)
      48 <223> OTHER INFORMATION: Linker Sequence where N represents A, G, C, or T
W--> 49 <400> 2
W--> 50 aggtaggtag gtaggtaggt aggtnnnnnn nnnnnnnnnn acctacctac ctacctacct 60
      51 acct 64
      53 <210> SEQ ID NO: 3
      54 <211> LENGTH: 64
      55 <212> TYPE: DNA
      56 <213> ORGANISM: Artificial Sequence
      57 <220> FEATURE:
      58 <223> OTHER INFORMATION: Description of Artificial Sequence: ALTR with two
      59 types of ALTR repeats and different linkers
W--> 60 <221> NAME/KEY: misc_feature
      61 <222> LOCATION: (25)..(27)
      62 <223> OTHER INFORMATION: Linker Sequence where N represents A, G, C, or T
W--> 63 <221> misc_feature
      64 <222> LOCATION: (28)..(37)
      65 <223> OTHER INFORMATION: DNA insert where N represents A, G, C, or T
W--> 66 <221> misc_feature
      67 <222> LOCATION: (38)..(40)
      68 <223> OTHER INFORMATION: Linker Sequence where N represents A, G, C, or T
W--> 69 <400> 3
W--> 70 aggtaggtag gtaggtaggt aggtnnnnnn nnnnnnnnnn gatggatgga tggatggatg 60
      71 gatg 64
      73 <210> SEQ ID NO: 4
      74 <211> LENGTH: 34
      75 <212> TYPE: DNA
      76 <213> ORGANISM: Artificial Sequence
      77 <220> FEATURE:
      78 <223> OTHER INFORMATION: Description of Artificial Sequence: Repeat A
      79 <400> SEQUENCE: 4
      80 acgcagctcg tgtaatacga ctgcgatgcc tccc 34
      82 <210> SEQ ID NO: 5
      83 <211> LENGTH: 22
      84 <212> TYPE: DNA
      85 <213> ORGANISM: Artificial Sequence
      86 <220> FEATURE:
      87 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer A
      88 <400> SEQUENCE: 5
      89 cgcagctcgt gtaatacgac tc 22
      91 <210> SEQ ID NO: 6
      92 <211> LENGTH: 34
      93 <212> TYPE: DNA
      94 <213> ORGANISM: Artificial Sequence
      95 <220> FEATURE:
      96 <223> OTHER INFORMATION: Description of Artificial Sequence: Repeat B
      97 <400> SEQUENCE: 6
      98 atgcatgctc agtggtgctg agtaacagcc tggg 34

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100 <210> SEQ ID NO: 7
101 <211> LENGTH: 22
102 <212> TYPE: DNA
103 <213> ORGANISM: Artificial Sequence
104 <220> FEATURE:
105 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer B
106 <400> SEQUENCE: 7
107      ggctgttact cagcaccact ga                                22
109 <210> SEQ ID NO: 8
110 <211> LENGTH: 75
111 <212> TYPE: DNA
112 <213> ORGANISM: Artificial Sequence
113 <220> FEATURE:
114 <223> OTHER INFORMATION: Description of Artificial Sequence: Left side of
115      ALTR vector
W--> 116 <221> NAME/KEY: misc_feature
117 <222> LOCATION: (69)..(75)
118 <223> OTHER INFORMATION: Insert and polylinker sequences where N represents
119      A, G, C, or T
W--> 120 <400> 8
121      acgcagctcg tgtaatacga ctgcgatgcc tcccacgcag ctcggtgaat acgactcgca 60
W--> 122      tgcctcccn nnnnnn                                75
124 <210> SEQ ID NO: 9
125 <211> LENGTH: 75
126 <212> TYPE: DNA
127 <213> ORGANISM: Artificial Sequence
128 <220> FEATURE:
129 <223> OTHER INFORMATION: Description of Artificial Sequence: Right side of
130      ALTR vector
W--> 131 <221> NAME/KEY: misc_feature
132 <222> LOCATION: (1)..(7)
133 <223> OTHER INFORMATION: Insert and Polylinker Sequences where N represents
134      A, G, C, or T
W--> 135 <400> 9
W--> 136      nnnnnnnnggg atgcatgctc agtgggtgctg agtaacagcc tgggatgcat gctcagtggt 60
137      gctgagtaac agcct                                75

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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/855,170A

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TIME: 10:48:50

Input Set : N:\Crif3\RULE60\09855170A.RAW.txt
Output Set: N:\CRF4\05102004\I855170A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40

Seq#:2; N Pos. 25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40

Seq#:3; N Pos. 25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40

Seq#:8; N Pos. 69,70,71,72,73,74,75

Seq#:9; N Pos. 1,2,3,4,5,6,7

VERIFICATION SUMMARY

DATE: 05/10/2004

PATENT APPLICATION: US/09/855,170A

TIME: 10:48:50

Input Set : N:\Crf3\RULE60\09855170A.RAW.txt

Output Set: N:\CRF4\05102004\I855170A.raw

L:4 M:270 C: Current Application Number differs, Wrong Format
L:20 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:23 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:26 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:29 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:30 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:40 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:43 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:2
L:46 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:2
L:49 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:2
L:50 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
L:60 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:63 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3
L:66 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3
L:69 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3
L:70 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
L:116 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:120 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:8
L:122 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:60
L:131 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:135 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:9
L:136 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0